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1: Oncol Rep. 1998 Jul-Aug;5(4):889-92.

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The effect of amiloride on the metastatic properties of prostate cancer in the Dunning rat model.

Pilat MJ, Lehr JE, Quigley MM, Pienta KJ.

Department of Internal Medicine, University of Michigan
Comprehensive Cancer Center, Ann Arbor, MI 48109-0946, USA.

Most deaths from cancer result from the metastatic spread of the disease. The antidiuretic amiloride has been shown to inhibit tumor growth and metastasis in several tumor systems. The object of these studies was to examine the effect on the in vitro and in vivo tumor growth and metastasis in the MatLyLu subline of the Dunning model of rat prostate cancer. In vitro, amiloride was found to have cytotoxic effects only at high concentrations, with an IC50 of 100 microg/ml. In vitro analysis of the ability of amiloride to inhibit invasion of MLL cells demonstrated that this drug was ineffective at all concentrations examined. In vivo, amiloride did not inhibit tumor growth or metastases development. Our studies demonstrate that amiloride does not have activity in this model of prostate cancer and suggest it may not be an appropriate therapy for the treatment of prostate cancer.

PMID: 9625839 [PubMed - indexed for MEDLINE]

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